

ASHOK P

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SUMMARY

Mechanical engineer with 14+ years of experience in Product Design & Development. Competency in New product development (NPD), Manufacturing process, Value engineering (VAVE), Special purpose machinery (SPM), Castings (Gray Iron & aluminum), Sheet metal (Press tools) & Plastics (injection moulded parts). Knowledge on component level to system level & assembly sequence. Exposure to automotive Heavy-duty trucks in Chassis components, Power-train installation & under CAB BIW mountings.

EXPERIENCE

Senior Technical Lead

HCL Technologies

April 2017 – Present, IN, KARNATAKA, Bangalore

Client: Volvo Group Trucks Technology, Bangalore.

- Supported for chassis mounted components & under CAB, Body in white mountings for heavy duty trucks.
- Contribution to project in Concept creation, Design validation, Concept selection, Assembly feasibility, Cost validation, Supplier interaction, technical discussion, Material selection, Proto testing & Weight calculation.
- Responsible for component ownership and drive discussion with various stake holders like FVV, AMT, Purchasing, Architecture, GTO, Cross-Functional leads & Epic Owner
- Continuous interaction & assist Product owner to solve the design related issues (8D), Project Milestone timeline & delivery targets, testing & validation plans
- Also, to ensure the quality deliverables with QDCF, RCA, DFMEA, DFMA & Technical regulation guideline – (TR) documents
- Execute basic design calculations on structural and co-ordinate with Simulation team for FEA results ensure design durability
- Major contributor in supplier discussion related to technical and manufacturing process (RTS, RFQ)
- Involved in frequent Assembly plant visit & supplier visits to understand mounting feasibility and limitations for responsible components
- Supported for Proto builds & testing of trucks in project phase like Mule-build, B-build & C-build
- Responsible for Design change notification (DCN), Drawings, CAD modules release, Single assembly BOM, CAD module structure update, Item to variant linking, Production release and Mail order follow-up in PDM (KOLA)
- Involved in Automation ideas & Advanced engineering ideas creation & execution.
- Hands on experience in using EDB, PROTUM, W8-Calc, AVP, GDRA, GWYN etc..

Technical Lead

Geometric Limited

September 2012 – April 2017, IN, KARNATAKA, Bangalore

Client: Volvo Group Trucks Technology (Volvo PENTA), Bangalore.

- Supported for Powertrain- Engine mounted components & installation supports for Marine & industrial applications
- Developed various sheet metal brackets and aluminum casting brackets for air-cleaner mount, Exhaust mount, Fuel lines mountings & wiring harness mountings
- Developed various aluminum casting housing like (Fly-wheel housing, Marine drive Lower, Intermediate housings, bearing housings, PTO housings & Coolant pump etc.
- Developed mounting brackets for exhaust mufflers, DPF pump & tank installation (Ad-blue tank), Heat exchanger & EGR Pipes etc.
- Supported for installation layout preparation for Gent-Set engines of medium duty & heavy duty (Marine and Industrial)
- Involved in Cost reduction / Localization projects for sheet metal and casting parts.
- Exposure in handling large assemblies, light weight models & packaging study etc.
- Good knowledge in GD & T and tolerance stack up calculation for assemblies.

Assistant Engineer-Design

Simgrosys Consulting Service PVT., LTD

November 2010 – September 2012, IN, TAMIL NADU, Coimbatore

Client: Schramm, Inc <https://schrammnc.com/>

- Supported for trailer attached structural Components / Assemblies for drilling rigs.
- Created concept in 3D CAD (Solid Works) and derived drawings and released in PDM.
- Supported in development of Coolant pump for automotive with 3D CAD, Drawings, and methodologies.
- Developed many value engineering components like water Pump Casing, Valve casings and assemblies.
- Supported for Tooling methodologies for castings to various metal foundry customers.
- Developed many weight / Cost reduction parts to achieve high yield.

- Supported for Simulation on structural and CFD analysis with required 3D geometry.
- Followed ASME 14.5 Y GD &T, extensively in drawings

Junior Design Engineer

ELPE Engineers (P) Ltd

November 2008 – September 2010, IN, TAMIL NADU, Coimbatore

- Supported for special purpose machinery development for V-groove rubber belt manufacturing customers
- Developed 3D components, Parts, Assemblies & drawings for fabrication of machines and machining activities.
- Supported in Press tool Manufacturing (Compound Die set & Progressive Die set) in design with all required drawings for machining
- Involved in customer interaction, Raw material procurement, interaction manufacturing suppliers with machining drawings.
- Knowledge in Machining, Heat treatment & Surface finish.

SKILLS & COMPETENCIES

- New Product Development (NPD)
- Value analysis & Value engineering (VA/VE)
- Special Purpose Machinery (SPM)
- Sheet Metal & Castings (Gray Iron & Aluminum)
- 2D – Tolerance stack –up analysis, GD&T
- PLM , Solid works, Creo & Windchill
- Basic FEA tools
- DFMEA
- DFA
- RCA
- Pug–Matrix
- Rapid Prototyping (3D Printing)
- PPAP

EDUCATION

• **Bachelor of Mechanical Engineering (2008–2011) – 7.11 CGPA,**
ANNA UNIVERSITY COIMBATORE • COIMBATORE, TAMIL NADU.

• **Diploma in Automobile Engineering (2003–2006) – 81.17% Honors,**
Sree Narayana Guru polytechnic college • IN, TAMIL NADU, Coimbatore

• **SSLC – 2002–2003 – 70.6%**
Holy Cross convent Matriculation school– The Nilgiris.

CERTIFICATIONS

Engine design and operating parameters

MS Ramaiah university of applied sciences.

Training on press tool Design & maintenance

BIMETAL BEARINGS LIMITED

Training at Rane TRW Hydraulic power steering service & O/H

AUTO ZONE Automobiles (Authorized from TATA MOTORS).

COURSEWORK

Plastic Product Design

HCL Technologies

Production Part Approval Process (PPAP)

HCL Technologies

Additive Manufacturing / 3D Printing – Metal

HCL Technologies
